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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/327,523	06/08/1999	TAKAHISA UENO	P99.0401	5532	
33448 75	90 07/16/2003				
ROBERT J. DEPKE LEWIS T. STEADMAN HOLLAND & KNIGHT LLC 131 SOUTH DEARBORN 30TH FLOOR CHICAGO, IL 60603			EXAMINER		
			MOE, AUNG SOE		
			ART UNIT	PAPER NUMBER	
•			2612	18	
			DATE MAILED: 07/16/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.



# Office Action Summary

Application No. **09/327,523** 

Applicant(s)

Ueno et al.

Examiner

Aung Moe

Art Unit **2612** 



The MA	AILING DATE of this communication appears o	on the cover she	et with t	he correspondence address	
Period for Reply				l	
THE MAILING D	STATUTORY PERIOD FOR REPLY IS SET TO DATE OF THIS COMMUNICATION. The provisions of 37 CFR 1.136 (a). In communication				
<ul> <li>If the period for reph</li> <li>If NO period for reph</li> <li>Failure to rephy withi</li> <li>Any rephy received b</li> </ul>	communication.  ly specified above is less than thirty (30) days, a reply within by is specified above, the maximum statutory period will apply in the set or extended period for reply will, by statute, cause by the Office later than three months after the mailing date of adjustment. See 37 CFR 1.704(b).	ly and will expire SIX ( e the application to be	(6) MONTHS	IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).	
Status				1	
1) X Responsi	ive to communication(s) filed on <u>Apr 30, 20</u>				
2a) This action	on is <b>FINAL</b> . 2b) 💢 This action	ion is non-final.			
closed in	s application is in condition for allowance ex accordance with the practice under <i>Ex part</i>				
Disposition of Cla				1	
4) X Claim(s)	<u>1-15</u>			is/are pending in the application.	
4a) Of the	above, claim(s) 9-11	1904		is/are withdrawn from consideratio	
5) Claim(s)				is/are allowed.	
_	1-8 and 12-15				
_				ect to restriction and/or election requirement	
Application Paper				ı	
9)□ The spec	cification is objected to by the Examiner.				
10) The draw	ving(s) filed on Jun 8, 1999 is/are	e a accepte	ed or b∭x	objected to by the Examiner.	
	nt may not request that any objection to the dr				
				approved 🗓 disapproved by the Examine	
If approv	ved, corrected drawings are required in reply to	o this Office acti	on.		
12) The oath	or declaration is objected to by the Examir	ner.			
	U.S.C. §§ 119 and 120				
	ledgement is made of a claim for foreign pri	iority under 35	U.S.C.	§ 119(a)-(d) or (f).	
	☐ Some* c)☐ None of:			!	
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	tified copies of the priority documents have				
	pies of the certified copies of the priority do application from the International Burea ached detailed Office action for a list of the	au (PCT Rule 17	7.2(a)).	_	
_	ached detailed Office action for a list of the ledgement is made of a claim for domestic				
	anslation of the foreign language provisional				
_	ledgement is made of a claim for domestic				
Attachment(s)	ougo	priority and		2. 33 120 dilu/or 121.	
1) X Notice of Refere	nces Cited (PTO-892)	4) Interview Sum	nmary (PTC	0-413) Paper No(s)	
2) X Notice of Drafts	person's Patent Drawing Review (PTO-948)			t Application (PTO-152)	
3) Information Disc	closure Statement(s) (PTO-1449) Paper No(s). 8	6) Other:		l	

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**DETAILED ACTION** 

Election/Restriction

1. Applicant's election with traverse of Species I (Figs. 1-9) and claims 1-8 and 12-15 in

Paper No. 13 (received on 4/30/03) is acknowledged. The traversal is on the ground(s) that "no

serious burden would be placed upon the Examiner if all claims were simultaneously examined

as search and examination of one of the species would inherently duplicate the search required

for examination of the other species". This is not found persuasive because it is noted that the

most recent restriction requirement made was in the form of an election of Species, not a

restriction requirement between more than one invention.

Moreover, the invention which is elected by the Applicant (i.e., Group I of Figs 1-9) is

disclosed in the specification and drawings for being embodied in multiple patentably distinct

embodiments (i.e., noted that Figs. 10-16C are directed to different type of sensor arrangements

than the elected Species of figures 1-9). In view of this, the mere evidence of several patentably

distinct embodiments is *prima facie* evidence of examining burdens of the Examiner.

The requirement is still deemed proper and is therefore made FINAL.

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#### Drawings

2. Figure 18 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

3. Figure 7 is objected to as failing to comply with 37 CFR 1.84(p)(4) because, as shown in Fig. 7, the reference character "φTn" corresponding to the signal line 26 should be labeled as "φRn" (i.e., noted that switch 14 is for Reset) and the reference character "φRn" corresponding to the signal line 25 should be label as "φTn" (i.e., noted that switch 12 is for Transfer; see Figs. 7-8 and page 19, lines 2+ of the specification).

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

#### Claim Objections

4. Claims 1-8 are objected to because of the following informalities:

In claim 1, please change the word "pixels" as recited in line 11 to -- said pixels -- because the word "pixels" have been mentioned in line 2 of claim 1.

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In claim 2, please change the words "a reset" as recited in line 4 to -- said reset --, because the phrase "a reset potential" has been mentioned in line 12 of claim 1.

Appropriate correction is required.

# Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for the purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1-3, 5-7, 12-14 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Gowda et al. (U.S. 5,898,168).

Regarding claim 1, Gowda '168 discloses a solid-state imaging element (Figs. 2 and 3A), comprising: unit pixels (18/30), arranged in a matrix form, which have photoelectric transfer elements (26), transfer switches (Figs. 1 and 3B; the elements' 8 and 22; see col. 1, lines 30+ and col. 4, lines 20+) for transferring charges stored in said photoelectric transfer elements (26), charge store parts (i.e., Figs. 1 and 3B; the elements' 7 and 25; col. 1, lines 65+ and col. 5, lines 50+) for storing charges transferred by said transfer switches (i.e., 8/22), reset switches (Figs. 1

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and 3B; the elements' 11 and 21) for resetting said charge store parts (i.e., 7/25), and amplifying elements (i.e., Fig. 1 and 3B; the elements' 13 and 23; see col. 2, lines 10+) for outputting signals in accordance with the potential of said charge store part to vertical signal lines (i.e., Figs. 1 and 3B; the element 15 and 15j);

a vertical scanning circuit (Figs. 2 and 3, the elements' 14 and 14') for selecting the pixels in units (18/30) of rows by controlling a reset potential afforded to said reset switches (11/21; see Figs. 5-6 and 11 and col. 4, lines 30+);

a horizontal scanning circuit (Figs. 2 and 3A; the elements' 28 and  $31_1$  to  $31_N$ ; col. 1, lines 50+ col. 4, lines 15+, and col. 5, lines 30+) for sequentially selecting signals output to said vertical signal lines (15/15j) in units of columns (i.e., see col. 4, lines 35+); and

an output circuit (i.e., Figs. 2 and 3A; the elements' 31<sub>1</sub> to 31<sub>N</sub> and 16; col. 1, lines 50+ and col. 6, lines 8+) for outputting signals selected by said horizontal scanning circuit via horizontal signal lines (i.e., noted the bus lines connected between the elements 28 and 31 as shown in Figs. 2 and 3A).

Regarding claim 2, Gowda '168 discloses wherein said vertical scanning circuit affords vertical selection pulses sequentially output during vertical scanning to said reset switches as a reset potential thereof (i.e., see col. 4, lines 30+ and col. 5, lines 15+).

Regarding claim 3, Gowda '168 discloses wherein said charge stored part is floating diffusion (i.e., col. 1, lines 65+).

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Regarding claim 5, Gowda '168 discloses wherein said output circuit outputs signals read into said vertical signal lines (15/15j) in voltage mode (i.e., "VOUT"; see col. 8, lines 20-25).

Regarding claim 6, Gowda '168 discloses wherein said output circuit outputs signals read into said vertical signal lines in current mode (i.e., col. 7, lines 39+).

Regarding claim 7, Gowda '168 discloses wherein said unit pixels (18/30) include an overflow (i.e., Fig. 14; the element 92) path between said photoelectric transfer element (110) and an area to which a pixel source voltage is afforded (i.e., VDD), said overflow path being used to discharge excess charges of said photoelectric transfer element (i.e., col. 10, lines 15-32).

Regarding claim 12, Gowda '168 discloses a method for driving a solid-state imaging element (Figs. 2 and 3A) including unit pixels, arranged in a matrix form (18/30), which have photoelectric transfer elements (6/26), transfer switches (8/22) for transferring charges stored in said photoelectric transfer elements (6/26), charge stored parts for storing charges (i.e., Figs. 1 and 3B; the elements' 7 and 25; col. 1, lines 65+ and col. 5, lines 50+) transferred by said transfer switches (8/22), reset switches (11/21) for resetting said charge store parts (i.e., 7/25), and amplifying elements (i.e., 13/23) for outputting signals in accordance with the potential of said charge store parts to vertical signals lines (i.e., 15/15j), said method comprising the step of:

selecting pixels in units of rows by controlling a reset potential afforded to said reset switches (i.e., see Figs. 5-6 and 11; col. 4, lines 25+ and col. 5, lines 20+).

Regarding claim 13, Gowda '168 discloses the step of: outputting signals read into said vertical signal lines in voltage mode (i.e., col. 8, lines 21+).

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Regarding claim 14, Gowda '168 discloses the step of: outputting signals read into said vertical signal lines in current mode (i.e., col. 7, lines 39+).

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Regarding claim 15, Gowda '168 discloses a camera system (i.e., col. 1, lines 20-25) using a solid-state imaging element as an imaging device, said solid-state imaging element (i.e., Figs. 2 an 3A), comprising:

unit pixels, arranged in a matrix form (i.e., Figs. 2 and 3A; the elements 18 and 30), which have photoelectric transfer elements (6/26), transfer switches (8/22) for transferring charges stored in said photoelectric transfer elements (6/26), charge stored parts for storing charges (i.e., Figs. 1 and 3B; the elements' 7 and 25; col. 1, lines 65+ and col. 5, lines 50+) transferred by said transfer switches (8/22), reset switches (11/21) for resetting said charge store parts (7/25), and amplifying elements (13/23) for outputting signals in accordance with the potential of said charge store parts to vertical signal lines (15/15j);

a vertical scanning circuit (Figs. 2 and 3, the elements' 14 and 14') for selecting pixels in units of rows (18/30) by controlling a reset potential afforded to said reset switch (11/21);

a horizontal scanning circuit (Figs. 2 and 3A; the elements' 28 and  $31_1$  to  $31_N$ ; col. 1, lines 50+ col. 4, lines 15+, and col. 5, lines 30+) for sequentially selecting signals output to said vertical signal lines in units of columns (i.e., see col. 4, lines 35+); and

an output circuit for outputting signals (i.e., Figs. 2 and 3A; the elements'  $31_1$  to  $31_N$  and 16; col. 1, lines 50+ and col. 6, lines 8+) selected by said horizontal scanning circuit via

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horizontal signal lines (i.e., noted the bus lines connected between the elements 28 and 31 as shown in Figs. 2 and 3A).

7. Claims 1-3, 5, 12-13 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Hamasaki (U.S. 5,793,423).

Regarding claim 1, Hamasaki '423 discloses a solid-state imaging element (Fig. 2, col. 1, lines 10+), comprising: unit pixels, arranged in a matrix form (Fig. 2; the elements 5), which have photoelectric transfer elements (i.e., noted the photo sensors as shown in Fig. 2), transfer switches (Fig. 2, the elements 1 & 2) for transferring charges stored in said photoelectric transfer elements, charge store parts for storing charges transferred by said transfer switches (i.e., col. 3, lines 20-30), reset switches (3) for resetting said charge store parts (FD), and amplifying elements (4) for outputting signals in accordance with the potential of said charge store part to vertical signal lines (9) (see Fig. 2, col. 3, lines 20+);

a vertical scanning circuit (8) for selecting the pixels in units of rows by controlling a reset potential afforded to said reset switches (i.e., col. 3,lines 35+);

a horizontal scanning circuit (19) for sequentially selecting signals output to said vertical signal lines in units of columns (i.e., col. 4, lines 8+); and

an output circuit (col. 4, lines 19+) for outputting signals selected by said horizontal scanning circuit (19) via horizontal signal lines (Fig. 2, the elements' 15 and 19).

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Regarding claim 2, Hamasaki '423 discloses wherein said vertical scanning circuit (8) affords vertical selection pulses sequentially output during vertical scanning to said reset switches as a reset potential thereof (col. 3, lines 35+).

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Regarding claim 3, Hamasaki '423 discloses wherein said charge stored part is floating diffusion (col. 3, lines 28+).

Regarding claim 5, Hamasaki '423 discloses wherein said output circuit outputs signals read into said vertical signal lines in voltage mode (i.e., col. 4, lines 31+).

Regarding claim 12, Hamasaki '423 discloses a method for driving a solid-state imaging element (Fig. 2) including unit pixels, arranged in a matrix form (Fig. 2, the element's 5), which have photoelectric transfer elements (i.e., noted the photo sensor is part of the element 5 as shown in Fig. 2), transfer switches (i.e., the elements' 1 and 2) for transferring charges stored in said photoelectric transfer elements, charge stored parts for storing charges (i.e., col. 3, lines 20-30) transferred by said transfer switches (i.e., the elements' 1 and 2), reset switches (3) for resetting said charge store parts (FD), and amplifying elements (4) for outputting signals in accordance with the potential of said charge store parts to vertical signals lines (9), said method comprising the step of:

selecting pixels in units of rows by controlling a reset potential afforded to said reset switches (i.e., col. 3, lines 25+).

Regarding claim 13, Hamasaki '423 discloses the step of: outputting signals read into said vertical signal lines in voltage mode (col. 4, lines 31+).

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Regarding claim 15, Hamasaki '423 discloses a camera system using a solid-state imaging element as an imaging device (Fig. 2; col. 1, lines 10+), said solid-state imaging element, comprising:

unit pixels, arranged in a matrix form (Fig. 2, the elements' 5), which have photoelectric transfer elements (i.e., noted the photosensors are part of the element 5 as shown in Fig. 2), transfer switches (i.e., the elements' 1 and 2) for transferring charges stored in said photoelectric transfer elements, charge stored parts for storing charges (i.e., col. 3, lines 20-30) transferred by said transfer switches (i.e., the elements' 1 and 2), reset switches (3) for resetting said charge store parts (FD), and amplifying elements (4) for outputting signals in accordance with the potential of said charge store parts to vertical signal lines (9);

a vertical scanning circuit (8) for selecting pixels in units (5) of rows by controlling a reset potential afforded to said reset switch (i.e., col. 3, lines 30+);

a horizontal scanning circuit (19) for sequentially selecting signals output to said vertical signal lines (9) in units of columns (col. 4, lines 5+); and

an output circuit for outputting signals (i.e., col. 4, lines 20+) selected by said horizontal scanning circuit (19) via horizontal signal lines (i.e., the elements' 15 and 19 as shown in Fig. 2).

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8. Claims 1-3, 6, 8, 12, and 14-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Pain et al. (U.S. 5,886,659).

Regarding claim 1, Pain '659 discloses a solid-state imaging element (Figs. 1A-1C, 3A and 4; col. 3, lines 55+ and col. 6, lines 10+), comprising: unit pixels, arranged in a matrix form (i.e., Fig. 4, the pixel 410), which have photoelectric transfer elements (i.e., Figs. 2A and 3A; the elements' 210 and 310), transfer switches for transferring charges (i.e., Fig. 3a, the element 320) stored in said photoelectric transfer elements (310), charge store parts (FD) for storing charges transferred by said transfer switches (i.e., see Fig. 3A; col. 6, lines 25+), reset switches (i.e., Fig. 3A; the element 340) for resetting said charge store parts (FD), and amplifying elements (i.e., Fig. 3A; the element 360; col. 3, lines 55-60) for outputting signals in accordance with the potential of said charge store part to vertical signal lines (i.e., Figs. 3A and 4; col. 6, lines 25+); a vertical scanning circuit (Fig. 4, the element 412) for selecting the pixels in units (410) of rows by controlling a reset potential afforded to said reset switches (i.e., col. 6, lines 24+): a horizontal scanning circuit (Fig. 4; the elements' 414 and 420) for sequentially selecting signals output to said vertical signal lines in units of columns (i.e., col. 6, lines 25+); and an output circuit (Fig. 4, the elements' 420 and 430) for outputting signals selected by said horizontal scanning circuit via horizontal signal lines (i.e., col. 6, lines 25+).

Regarding claim 2, Pain '659 discloses wherein said vertical scanning circuit (Figs. 3A and 4; the element's 412) affords vertical selection pulses sequentially output during vertical scanning to said reset switches as a reset potential thereof (i.e., col. 6, lines 2+).

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Regarding claim 3, Pain '659 discloses wherein said charge stored part is floating diffusion (col. 6, lines 30+).

Regarding claim 6, Pain '659 discloses wherein said output circuit outputs signals read into said vertical signal lines in current mode (i.e., col. 6, lines 25+).

Regarding claim 8, Pain '659 discloses wherein a negative potential is applied to the control electrode of said transfer switches (i.e., col. 6, lines 40-43).

Regarding claim 12, Pain '659 discloses a method for driving a solid-state imaging element (Figs. 1A-1C, 3A and 4) including unit pixels, arranged in a matrix form (i.e., Fig. 4, the pixel 410), which have photoelectric transfer elements (i.e., Figs. 2A and 3A; the elements' 210 and 310), transfer switches (i.e., Fig. 3A, the element 320) for transferring charges stored in said photoelectric transfer elements (310), charge stored parts (FD) for storing charges transferred by said transfer switches (i.e., see Fig. 3A; col. 6, lines 25+), reset switches for resetting (i.e., Fig. 3A; the element 340) said charge store parts (FD), and amplifying elements for outputting signals (i.e., Fig. 3A; the element 360; col. 3, lines 55-60) in accordance with the potential of said charge store parts to vertical signals lines (i.e., Figs. 3A and 4; col. 6, lines 25+), said method comprising the step of:

selecting pixels in units of rows (Fig. 4, the element's 410) by controlling a reset potential afforded to said reset switches (Figs. 3A and 4; col. 6, lines 2+).

Regarding claim 14, Pain '659 discloses the step of: outputting signals read into said vertical signal lines in current mode (i.e., col. 6, lines 25+).

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Regarding claim 15, Pain '659 discloses a camera system using a solid-state imaging element as an imaging device (Figs. 2A, 3A and 4; col. 3, lines 55+ and col. 6, lines 10+), said solid-state imaging element, comprising:

unit pixels, arranged in a matrix form (i.e., Fig. 4, the pixel 410), which have photoelectric transfer elements (210/310), transfer switches for transferring charges (i.e., Fig. 3A, the element 320) stored in said photoelectric transfer elements (310), charge stored parts (FD) for storing charges transferred by said transfer switches (i.e., see Fig. 3A; col. 6, lines 25+), reset switches for resetting (i.e., Fig. 3A; the element 340) said charge store parts (FD), and amplifying elements for outputting signals (i.e., Fig. 3A; the element 360; col. 3, lines 55-60) in accordance with the potential of said charge store parts to vertical signal lines (i.e., Figs. 3A and 4; col. 6, lines 25+);

a vertical scanning circuit (Fig. 4, the element 412) for selecting pixels in units of rows (410) by controlling a reset potential afforded to said reset switch (i.e., col. 6, lines 26+);

a horizontal scanning circuit (Fig. 4, the elements 414/420) for sequentially selecting signals output to said vertical signal lines in units of columns (i.e., col. 6, lines 25+); and an output circuit for outputting signals (Fig. 4, the elements' 420 and 430) selected by said horizontal scanning circuit via horizontal signal lines (i.e., col. 6, lines 25+).

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### Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors.

In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

10. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gowda '168 in view of Miwada (U.S. 5,206,932).

Regarding claim 4, it is noted that Gowda '168 does not explicitly state that the reset switches comprise a depression type transistor.

However, the above mentioned claimed limitations are well-known in the art as evidenced by Miwada '932. In particular, Miwada '932 teaches the use of a depression type transistor in the solid-state imaging device as a reset switch (Fig. 1; col. 4, lines 50-55) for

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resetting the floating diffused region (7) so that deterioration of the dynamic range is prevented (i.e., see col. 3, lines 1-5).

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In view of the above, having the system of Gowda '168 and then given the well-established teaching of Miwada '932, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Gowda '168 as taught by Miwada '932, since Miwada '932 states at column 3, lines 3+ that such a modification would prevent the solid-state imaging device from deterioration of the dynamic range resulting from faulty resetting of the floating diffused region thereof.

## Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a. Ishida '971, Zhou '871, Sauer '758, Shinohara '884, Ackland '141 and Fossum '483 shows a solid-state imaging element having unit pixels, a vertical scanning circuit, a horizontal scanning circuit and the output circuit thereof.
- b. Tower '371 shows a solid-state imaging element, wherein a negative potential is applied to the control electrode of the transfer switches (i.e., see col. 5, lines 15+).

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c. Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Aung S. Moe whose telephone number is (703) 306-3021. If

attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy

Garber, can be reach on (703) 305-4929.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9314, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the customer service number (703) 306-0377.

A. Moe

July 10, 2003